

Title (en)
COMPOSITE MATERIALS COMPRISING CONCRETE AGGREGATES AND POROUS CARBON, AND USE THEREOF FOR ELIMINATING POLLUTANT GASES

Title (de)
VERBUNDSTOFFE AUS BETONAGGREGATEN UND PORÖSEM KOHLENSTOFF UND DEREN VERWENDUNG ZUR BESEITIGUNG VON SCHADGASEN

Title (fr)
MATERIAUX COMPOSITES COMPRENANT DES AGREGATS DE BETON, DU CARBONE POREUX ET LEUR UTILISATION POUR L'ELIMINATION DE GAZ POLLUANTS

Publication
EP 4048644 A1 20220831 (FR)

Application
EP 20807072 A 20201020

Priority
• FR 1911794 A 20191022
• FR 2020051883 W 20201020

Abstract (en)
[origin: WO2021079052A1] The invention belongs to the field of eliminating pollutant gases. In particular, the invention belongs to the field of pollutant gas-absorbing materials such as CO₂, SO₂, NO_x and VOCs. The present invention relates to a fresh composite or composite paste and a composite material comprising aggregates of recycled concrete, porous carbon, a binder and optionally water, as well as to the method for manufacturing the composite and the use thereof for sanitising air (indoor or outdoor). The invention also relates to an article (for example, an anti-noise wall, a tunnel lining, an indoor decoration, an item of street furniture, etc.) comprising the composite according to the invention.

IPC 8 full level
C04B 18/10 (2006.01); **C04B 18/16** (2006.01); **C04B 26/02** (2006.01); **C04B 26/26** (2006.01); **C04B 28/04** (2006.01)

CPC (source: EP US)
A61L 9/014 (2013.01 - US); **B01D 53/04** (2013.01 - US); **B01J 20/16** (2013.01 - US); **B01J 20/20** (2013.01 - US); **B01J 20/28004** (2013.01 - US); **B01J 20/2803** (2013.01 - US); **B01J 20/28064** (2013.01 - US); **B01J 20/28066** (2013.01 - US); **B01J 20/28071** (2013.01 - US); **B01J 20/3042** (2013.01 - US); **C04B 14/022** (2013.01 - US); **C04B 18/101** (2013.01 - EP); **C04B 18/167** (2013.01 - EP US); **C04B 26/02** (2013.01 - EP); **C04B 26/26** (2013.01 - EP); **C04B 28/02** (2013.01 - US); **C04B 28/04** (2013.01 - EP); **A61L 2209/22** (2013.01 - US); **B01D 2253/102** (2013.01 - US); **B01D 2253/25** (2013.01 - US); **B01D 2253/306** (2013.01 - US); **B01D 2253/311** (2013.01 - US); **B01D 2257/302** (2013.01 - US); **B01D 2257/404** (2013.01 - US); **B01D 2257/504** (2013.01 - US); **B01D 2257/708** (2013.01 - US); **B01D 2257/91** (2013.01 - US); **C04B 2103/0078** (2013.01 - US); **C04B 2111/00767** (2013.01 - EP); **C04B 2111/00793** (2013.01 - EP); **C04B 2111/52** (2013.01 - EP); **Y02W 30/91** (2015.05 - EP)

Citation (search report)
See references of WO 2021079052A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3102171 A1 20210423; FR 3102171 B1 20211015; EP 4048644 A1 20220831; US 2022370980 A1 20221124; WO 2021079052 A1 20210429

DOCDB simple family (application)
FR 1911794 A 20191022; EP 20807072 A 20201020; FR 2020051883 W 20201020; US 202017755136 A 20201020